Receipt date: 07/20/2006 . 20/586 poss6589

20/586 50896589 - GAU: 2618 IAP11 Rec'd PCT/PTO 20 JULY 2005

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Tohru KIKUCHI

Title: TRANSMISSION DIRECTIONAL ANTENNA CONTROL SYSTEM,

BASE STATION, AND TRANSMISSION DIRECTIONAL ANTENNA CONTROL METHOD USED FOR SYSTEM AND

BASE STATION

Appl. No.: Unassigned

International 01/18/2005

Filing Date:

371(c) Date: 07/20/2006

Examiner: Unassigned

Art Unit: Unassigned

## INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §1.56

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to

Applicant in order to comply with Applicant's duty of disclosure pursuant to 37 CFR \$1.56.

A copy of each non-U.S. patent document and each non-patent document is being submitted to comply with the provisions of 37 CFR \$1.97 and \$1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicant does not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

Atty. Dkt. No. 040373-0395

## TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), within three (3) months of the date of entry of the national stage as set forth in 37 CFR §1.491.

## RELEVANCE OF EACH DOCUMENT

Documents A1 and A2 are U.S. counterparts of Document A13, which relates to radio communications equipment using adaptive array antenna to reduce the transmission electric power of a base station and to increase the number of simultaneous terminal connections.

Document A3 is a U.S. counterpart of Document A8.

The relevance of Document All is described in the present application.

Document A4 is a U.S. counterpart of Document A10, which relates to a transmission antenna directivity control device and method therefore, which can improve the transmission direction precision of a transmitted beam with a simple structure..

Document A5 is a U.S. counterpart of Document A14, which relates to a multi-beam antenna system for radio base station to perform transmission beam forming when incoming signals are present and to stop the transmission beam forming when the incoming signals are not present.

Document A6 is a U.S. counterpart of Document A12, which relates to radio communications equipment using adaptive array antenna, which reduces the transmission electric power of a base station and increases the number of simultaneous terminal connections by calculating the subspaces of respective terminals and buses.

Document A9 relates to a device and method for radio communication which prevents the diversity effect of a diversity system, generally applied to a down line of a CDMA radio

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communication system, from becoming worse and to prevent transmitting electric power from being dissipated.

Documents A7, A8, A12 and A15, listed on the attached PTO/SB/08, were cited as being relevant during the prosecution of the corresponding International application. A copy of the International Search Report is attached setting forth the portion of each document considered relevant by the examiner. An English-language counterpart of the foreignlanguage documents has been provided.

Applicant respectfully requests that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

Although Applicant believes that no fee is required for this Request, the Commissioner is hereby authorized to charge any additional fees which may be required for this Request to Deposit Account No. 19-0741.

Respectfully submitted,

Date: July 20, 2006

FOLEY & LARDNER LLP Customer Number: 22428 Telephone: (202) 672-5407

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David A. Blumenthal Attorney for Applicant Registration No. 26,257 Receipt date: 07/20/2006 10586589 GAU 2618 through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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number.	Substitute for	form 1449B	PTO	Complete if Known		
	INFORMATIO	N DISCLO	SURE	Application Number	Unassigned	
	STATEMENT	BY APPLI	CANT	Filing Date	01/18/2005	
	D-4- C. b-:		0000	First Named Inventor	Tohru KIKUCHI	
	Date Submitte	a: July 20,	2006	Group Art Unit	Unassigned	
	(use as many sh	eets as ne	cessary)	Examiner Name	Unassigned	
Sheet	1	of	1	Attorney Docket Number	040373-0395	

				U.S. PATENT DOCUMENTS	3	
	Cite No.1	U.S. Patent Document			Date of Publication of	Pages, Columns, Lines, Where Relevant
Examiner Initials*		Number	Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear
	A1	2004/0014501	A1	KUWAHARA et al.	01-22-2004	
	A2	6,597,678	B1	KUWAHARA et al.	07-22-2003	
	A3	2003/0069047	A1	KITAHARA	04-10-2003	
	A4	6,433,738	B1	KIKUCHI	08-13-2002	
	A5	6,347,220	B1	TANAKA et al.	02-12-2002	
	A6	5.960.350		SCHORMAN et al.	09-28-1999	

I	UNPUBLISHED U.S. PATENT APPLICATION DOCUMENTS									
ı	Examiner Initials*	Cite No.1	U.S. Patent Application Document		Name of Patentee or Applicant of	Filing Date of	Pages, Columns, Lines, Where Relevant			
ı			Serial Number	Kind Code <sup>2</sup> (if known)	Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear			
ı										

FOREIGN PATENT DOCUMENTS									
Examiner Initials*	Cite No.1	Foreign Patent Document Office <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>	
	Α7	JP	2004-297750	A	MITSUBISHI ELECTRIC CORP.	10-21-2004		Α	
	A8	JP	2003-124856	A	HITACHI KOKUSAI ELECTRIC IND.	04-25-2003		Α	
	A9	JP	2003-124854	Α	MATSUSHITA ELECTRIC IND. CO. LTD.	04-25-2003		Α	
	A10	JP	2002-135032	A	NEC CORP.	05-10-2002		A	
	A11	JP	2001-007754	A	TOSHIBA CORP.	01-12-2001		A	
	A12	JP	2001-505025	A	MOTOROLA INC.	04-10-2001		Α	
	A13	JP	2000-224097	A	HITACHI LTD.	08-11-2000		Α	
	A14	JP	11-266228		FUJITSU LTD.	09-28-1999		Α	

NON PATENT LITERATURE DOCUMENTS							
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>				
	A15	K. KIHIRA et al., "Closed-loop Mode Beam Selection Method in CDMA/FDD Systems", The Institute of Electronics, Information and Communication Engineers Gijutsu Kenkyu Hokoku, VOI. 102:464, 21 November 2002, pp. 5-16.					

Examiner Signature	/Nhan Le/	Date Considered	11/30/2009

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

English language Translation is attached Burden Nour Statement: This form is estimated to take 2.0 hours to compete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete his form should be sent to the Other Information Officer, U.S. Patent and Trademark OFF. 0. 6to 4149. Alexandia, V.A. 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. 8to 4459. Alexandia, V.A. 22313-1450.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>2</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>2</sup>For Japanese patent documents, the indication of the year of the regind of the Emperor must precede the serial number of the patent document. <sup>2</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.1 of Drossble. <sup>2</sup>Applicant is to place a check mark here if